

Mitigation Items: Flooding

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 1:</b> To minimize the losses of life and property in Carroll County due to flooding.											
<b>Objective 1:</b> To protect the citizens, critical facilities and critical infrastructure of Carroll County from the effects of flooding.											
1.1.1	Continued vigilance in issuing permits on property with special flood hazard areas.	Carroll County and Cities*	Department of Community Development	Ongoing	Staff Time	General Funds	Unknown	High	New	Prevention	18
1.1.2	Ensuring that future dwellings comply with NFIP and the county flood ordinance.	Carroll County and Cities*	Department of Community Development	Ongoing	Staff Time	General Funds	Unknown	High	New	Prevention	16
1.1.3	Inventory and plot in Geographical Information Systems (GIS) all drain facilities on public property (right of ways).	Carroll County and Cities*	Department of Community Development	1 year	\$1,200,000	General Funds	\$20,000,000	Low	Both	Property Protection	13
1.1.4	Install water level monitoring devices on all category one (1) dams and on all major tributaries in Carroll County.	Carroll County	Carroll County EMA	2 years	\$25,000	Hazard Mitigation Grants and General Funds	Unknown	Medium	Existing	Emergency Services	17
1.1.5	Enhance warning system below Lake Seaton Dam.	Carroll County Water Authority	Carroll County EMA	1 year	\$100,000	Hazard Mitigation Grants and General Funds	Unknown	High	Both	Emergency Services	15
1.1.6	Conduct a study to properly size culverts to drainage basins.	Carroll County	Carroll County Public Works	3 years	\$200,000	Hazard Mitigation Grants and General Funds	\$20,000,000	Medium	Both	Property Protection	13

\*Cities refers to the following: Bowdon, Bremen, Carrollton, Mount Zion, Roopville, Temple, Villa Rica and Whitesburg

Mitigation Items: Flooding

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 1:</b> To minimize the losses of life and property in Carroll County due to flooding.											
<b>Objective 2:</b> To reduce the incident rates of localized flooding in Carroll County.											
1.2.1	Assess the flood plain of Milner Lake (off Shadow Lake Drive) to determine ways to mitigate flooding for repetitive loss properties.	Carroll County	Public Works and Transportation	1 year	Staff Time	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Existing	Prevention	14
1.2.2	Replace the bridge at McIntosh Reserve.	Carroll County	Public Works and Transportation	1 year	\$500,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Structural Projects	17
1.2.3	Install bridge on Bagwell Road.	Carroll County	Public Works and Transportation	3 years	\$500,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Structural Projects	17
1.2.4	Install a culvert at creek on Campground Road.	Carroll County	Public Works and Transportation	1 year	\$8,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.5	Replace the culvert on Craven- Roopville Veal Road with a larger diameter culvert.	Carroll County	Public Works and Transportation	2 year	\$5,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.6	Replace the culvert on Tanyard Road with a larger diameter culvert.	Carroll County	Public Works and Transportation	2 years	\$5,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	17

Mitigation Items: Flooding

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 1:</b> To minimize the losses of life and property in Carroll County due to flooding.											
<b>Objective 2:</b> To reduce the incident rates of localized flooding in Carroll County.											
1.2.7	Install a culvert at creek on Denny Road.	Carroll County	Public Works and Transportation	2 years	\$5,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.8	Install a culvert at creek on Wantland Road.	Carroll County	Public Works and Transportation	1 year	\$5,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.9	Property acquisitions/raze homes at Old Bremen Road (Carrollton) to NFIP compliance/ standards.	Carroll County	Public Works and Transportation	3 years	\$1,000,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	15
1.2.10	Replace culverts under Bradley Street at John Wesley Plaza with larger diameter culverts.	City of Carrollton	Public Works and Transportation	2 years	\$500,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.11	Property acquisitions/address drainage at River and House Streets to NFIP compliance/ standards.	City of Carrollton	City of Carrollton Housing Authority	2 years	\$2,000,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	15
1.2.12	Replace the culvert at Old Bremen Road with a larger diameter culvert.	City of Temple	Public Works and Transportation	2 years	\$10,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16

Mitigation Items: Flooding

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 1:</b> To minimize the losses of life and property in Carroll County due to flooding.											
<b>Objective 2:</b> To reduce the incident rates of localized flooding in Carroll County.											
1.2.13	Replace the culvert at Rome Street with a larger diameter culvert.	City of Temple	Public Works and Transportation	1 year	\$10,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.14	Replace the culvert at Rainey Road with a larger diameter culvert.	City of Temple	Public Works and Transportation	1 year	\$8,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.15	Address drainage issues at Baskin St at Carrollton St.	City of Temple	Public Works and Transportation	2 year	\$10,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.16	Replace the West View Drive culvert with a larger diameter culvert.	City of Villa Rica	Public Works and Transportation	3 years	\$500,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.17	Replace (or install) culvert on Bagwell Rd with a larger diameter culvert.	Carroll County	Public Works and Transportation	3 years	\$5,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.18	Install an additional culvert on Highway 101 at the Hickory Point Subdivision.	Carroll County	Public Works and Transportation	1 year	\$5,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16

Mitigation Items: Flooding

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 1:</b> To minimize the losses of life and property in Carroll County due to flooding.											
<b>Objective 2:</b> To reduce the incident rates of localized flooding in Carroll County.											
1.2.19	Replace the culvert on Grimmett Road with a larger diameter culvert.	Carroll County	Public Works and Transportation	1 year	\$5,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.20	Replace the culvert on Yates Lane with a larger diameter culvert.	Carroll County	Public Works and Transportation	2 years	\$5,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.21	Replace culvert at Amberwood Lane with a larger diameter culvert.	Carroll County	Public Works and Transportation	3 years	\$5,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.22	Replace the culvert at Villa Rosa Rd with a larger diameter culvert.	Carroll County	Public Works and Transportation	3 years	\$5,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.23	Address drainage issues at Spring St. and S. Carroll.	Carroll County	Public Works and Transportation	3 years	\$50,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.24	Address drainage issues at Old Stone and Punkintown.	Carroll County	Public Works and Transportation	3 years	\$50,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16

Mitigation Items: Flooding

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 1:</b> To minimize the losses of life and property in Carroll County due to flooding.											
<b>Objective 2:</b> To reduce the incident rates of localized flooding in Carroll County.											
1.2.25	Improve drainage between Tanner Street and Old City Hall Avenue	City of Carrollton	Public Works and Transportation	1 year	\$200,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.26	Improve drainage at West Reese Street.	City of Carrollton	Public Works and Transportation	1 year	\$800,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.27	Improve drainage at Johnson Ave.	City of Carrollton	Public Works and Transportation	3 years	\$400,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.28	Improve drainage between Johnson Ave and City Hall Ave.	City of Carrollton	Public Works and Transportation	2 years	\$200,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16
1.2.29	Improve drainage between West Reese Street and Hwy 27.	City of Carrollton	Public Works and Transportation	4 years	\$200,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	16

Mitigation Items: Tornadoes

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 2:</b> To minimize the losses of life and property due to tornadoes in Carroll County.											
<b>Objective 1:</b> To reduce the effects of high winds from tornadoes on residential, commercial and governmental properties.											
2.1.1	Perform tornado safety training for the government employees.	Carroll County and Cities*	Carroll County EMA and municipal police+	3 years	Staff Time	General Funds	Unknown	High	Both	Public Education and Awareness	20
2.1.2	Retrofit public schools with special high wind-resistant films for doors and windows.	Carroll County School System and Carrollton City Schools	Carroll County EMA	3 years	\$2,000,000	Hazard Mitigation Grants	Unknown	High	Both	Property Protection	13
2.1.3	Research the feasibility of using underground utilities.	Georgia Power, Carroll EMC, Others	Carroll County EMA	3 years	\$50,000	State and Federal Grants	Unknown	Medium	Both	Property Protection, Structural Projects	12
2.1.4	Promote the use of special roofing shingles designed to interlock and resist uplift forces for both new construction and retrofits.	Carroll County	Carroll County EMA	3 years	Staff Time	Hazard Mitigation Grants	Unknown	Medium	Both	Structural Projects	16
2.1.5	Promote the construction of safe rooms in shelter areas and in public buildings.	Carroll County	Carroll County EMA	3 years	\$5,000,000	Hazard Mitigation Grants	Unknown	Medium	Both	Structural Projects	13

\*Cities refers to the following: Bowdon, Bremen, Carrollton, Mount Zion, Roopville, Temple, Villa Rica and Whitesburg

+Municipal police refers to Bremen, Bowdon, Carrollton, Mount Zion, Temple and Villa Rica

Mitigation Items: Thunderstorms

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 3:</b> To minimize the losses of life and property due to thunderstorm winds and lightning in Carroll County.											
<b>Objective 1:</b> To protect people and property from the effects of electrical storms in Carroll County.											
3.1.1	Distribute severe weather preparedness literature at appropriate/ identified events.	Carroll County	Carroll County EMA	Ongoing	\$2,000	General Funds	Unknown	High	Both	Public Education and Awareness	22
3.1.2	Provide National Oceanic and Atmospheric Administration (NOAA) weather radios to identified citizens from at-risk populations.	Carroll County	Carroll County EMA	Ongoing	\$5,000	Hazard Mitigation Grants and General Funds	Unknown	High	Both	Public Education and Awareness	18
3.1.3	Install generator back-up at all critical facilities in Carroll County.	Carroll County and Cities* except Carrollton	Carroll County EMA	5 years	\$10,000,000	Hazard Mitigation Grants and General Funds	Unknown	Medium	Both	Property Protection	17
3.1.4	Install surge protectors on critical facilities' electronic equipment in essential county and city facilities.	Carroll County and Cities*	Carroll County EMA	5 years	\$250,000	Grants, General Funds, and SPLOST	Unknown	High	Both	Property Protection	17
3.1.5	Equip all county and city recreation parks with lightning detectors.	Carroll County and Cities*	Parks and Recreation Departments+ and Carroll County EMA	3 years	\$36,000	Grants, General Funds, and SPLOST	Unknown	High	Both	Property Protection	17
3.1.6	Installation of a generator at VRPD Training Center to use as an Emergency Command Center.	City of Villa Rica	Public Works	1 year	\$65,000	Hazard Mitigation Grants, General Funds	Unknown	High	Both	Property Protection	17

\*Cities refers to the following: Bowdon, Bremen, Carrollton, Mount Zion, Roopville, Temple, Villa Rica and Whitesburg

+Parks and Recreation refers to Bremen, Bowdon, Carrollton, Mount Zion, Temple, Villa Rica and Carroll County



Mitigation Items: Tropical Cyclones

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 4:</b> To minimize the losses of life and property due to tropical cyclones in Carroll County.											
<b>Objective 1:</b> To protect people and property from the effects of electrical storms in Carroll County.											
4.1.1	Develop a readiness program to encourage citizens to prepare a storm kit in the event of an emergency.	Carroll County	Carroll County EMA	Ongoing	\$10,000	General Funds, SPLOST	Unknown	High	Both	Public Education and Awareness	22
4.1.2	Retrofit public schools with special high wind-resistant films for doors and windows.	Carroll County School System and Carrollton City Schools	Carroll County EMA	3 years	\$2,000,000	Hazard Mitigation Grants and General Funds	Unknown	High	Both	Property Protection	13
4.1.3	Promote the construction of safe rooms in shelter areas and in public buildings.	Carroll County and Cities*	Carroll County EMA	3 years	\$5,000,000	Hazard Mitigation Grants and General Funds	Unknown	Medium	Both	Property Protection	13
4.1.4	Promote the use of special roofing shingles designed to interlock and resist uplift forces for both new construction and retrofits.	Carroll County	Carroll County EMA	3 years	Staff Time	General Funds, SPLOST	Unknown	Medium	Both	Structural Projects	19
4.1.5	Research the feasibility of using underground utilities.	Georgia Power, Carroll EMC, Others	Carroll County EMA	3 years	\$50,000	Hazard Mitigation Grants	Unknown	Medium	Both	Property Protection, Structural Projects	12

\*Cities refers to the following: Bowdon, Bremen, Carrollton, Mount Zion, Roopville, Temple, Villa Rica and Whitesburg

Mitigation Items: Winter Storms

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 5:</b> To minimize the losses of lives and property due to winter storms in Carroll County.											
<b>Objective 1:</b> Protect people and property from the effects of winter storms in Carroll County.											
5.1.1	Distribute severe winter weather preparedness literature at appropriate/ identified community events.	Carroll County	Carroll County EMA	Ongoing	\$5,000	General Funds, SPLOST	Unknown	High	Both	Public Education and Awareness	22
5.1.2	Research, purchase and installation of a portable Natural Gas Generator for Temple Waste Water Lift Stations (13).	City of Temple	Public Works	2 years	\$550,000	Hazard Mitigation Grants and General Funds	Unknown	High	Both	Property Protection	17
5.1.3	Purchase the equipment necessary to maintain adequate road, debris and clearing capabilities.	Carroll County	Public Works	3 years	\$300,000	General Funds and SPLOST	Unknown	High	Both	Emergency Services	17
5.1.4	Research, purchase and installation of a fixed Natural Gas Generator for Carroll County Critical Facility, Emergency Shelter.	Carroll County	Public Works	2 years	\$97,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	17
5.1.5	Purchase spreader trucks for Carroll County, the City of Carrollton, the City of Villa Rica, the City of Temple, the City of Bowdon, the City of Bremen, the City of Mt. Zion, the City of Whitesburg and the City of Roopville.	Carroll County and Cities*	Public Works	2 years	\$130,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Emergency Services	16
5.1.6	Purchase a small sand spreader to attach to a 4-wheel drive pickup truck.	City of Bowdon	Public Works	2 years	\$15,000	General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	17
5.1.7	Purchase 4-wheel drive vehicles for emergency responders.	Carroll County and Cities*	Public Works	1 year	\$600,000	General Funds, SPLOST	Unknown	High	Both	Emergency Services	16
5.1.8	Purchase a 4-wheel drive pickup truck.	City of Bowdon	Public Works	1 year	\$35,000	General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	16

Mitigation Items: Winter Storms

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 5:</b> To minimize the losses of lives and property due to winter storms in Carroll County.											
<b>Objective 1:</b> Protect people and property from the effects of winter storms in Carroll County.											
5.1.9	Purchase an All Terrain Vehicle 4-wheeler	City of Temple	Public Works	1 year	\$6,500	General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	16
5.1.10	Purchase brush chipper.	City of Bowdon	Public Works	1 year	\$70,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	16
5.1.11	Purchase brush chipper.	City of Temple	Public Works	1 year	\$70,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	16
5.1.12	Purchase a 4-wheel drive Gator.	City of Temple	Public Works	1 year	\$8,000	General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	16
5.1.13	Purchase a pallet jack.	City of Temple	Public Works	1 year	\$600	General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	16
5.1.14	Purchase a portable 6" centrifugal pump, towable with hoses.	City of Temple	Public Works	1 year	\$21,500	General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	16
5.1.15	Purchase gas powered pressure washer, wand and hoses, tips operating at >/=2500 PSI.	City of Temple	Public Works	1 year	\$1,950	General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	16

\*Cities refers to the following: Bowdon, Bremen, Carrollton, Mount Zion, Roopville, Temple, Villa Rica and Whitesburg

Mitigation Items: Drought and Wildfires

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 6:</b> To minimize the losses of lives and property due to drought in Carroll County.											
<b>Objective 1:</b> To protect the people and property of Carroll County from the devastating effects of a drought.											
6.1.1	Educate citizens and farmers about the potential negative effects that arise from extended drought conditions.	Carroll County EMA	Carroll County EMA	Ongoing	Staff Time	General Funds, SPLOST	Unknown	Medium	Both	Public Education and Awareness	18
6.1.2	Develop public awareness to promote water saving campaigns (such as low-flow water saving showerheads and toilets).	Carroll County and Cities Water Authority/ Departments*	Carroll County EMA	Ongoing	\$50,000	General Funds, SPLOST	Unknown	Medium	Both	Public Education and Awareness	9
6.1.3	Expand the Carroll County water system (county wide).	Carroll County Water Authority	Carroll County Water Authority	5 years	\$10,000,000	Grants (such as CDBG), General Funds, SPLOST	Unknown	Medium	Both	Structural Projects	16
6.1.4	Add a Raw Water Holding Pond at the Water Treatment Plant.	City of Carrollton	City Water Department	2 years	\$6 Million	Grants, General Funds, and SPLOST	Unknown	Medium	Both	Structural Projects	16
6.1.5	Improve Stripling Chapel Rd water main.	City of Carrollton	City Water Department	3 years	\$2 Million	Grants, General Funds, and SPLOST	Unknown	Medium	Both	Structural Projects	16
6.1.6	Add water tanks.	City of Carrollton	City Water Department	4 years	\$2 Million	Grants, General Funds, and SPLOST	Unknown	Medium	Both	Structural Projects	17
6.1.7	Upgrades to water system	City of Roopville	City of Roopville	4 years	\$2,000,000	Grants (ARC), General Funds, and SPLOST	Unknown	Medium	Both	Structural Projects	16

\*City Water Departments include Bowdon, Bremen, Carrollton, Temple, Villa Rica and Whitesburg

Mitigation Items: Drought and Wildfires

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
Mitigation Goal 6: To minimize the losses of lives and property due to drought in Carroll County.											
Objective 2: To protect the people and property of Carroll County from the devastating effects of wildfires due to drought conditions.											
6.2.1	Develop a public awareness campaign to heighten awareness about brush fires and preventive maintenance to homeowners.	Carroll County and Carrollton Fire Department	Fire Department	Ongoing	\$36,000	General Funds, SPLOST	Unknown	High	Both	Emergency Services	22
6.2.2	Become a Firewise Community and integrate firewise standards into development codes	Carroll County and Carrollton Fire Department	Fire Department	3 years	Staff Time	General Funds, SPLOST	Unknown	High	Both	Public Education and Awareness	15

Mitigation Items: Earthquake

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 8:</b> To minimize the losses of lives and property due to earthquakes in Carroll County.											
<b>Objective 1:</b> Improve Carroll County's earthquake information distribution and warning to citizens.											
7.1.1	Distribute earthquake preparedness literature at community events.	Carroll County EMA	Carroll County EMA	Ongoing	Staff Time	General Funds, SPLOST	Unknown	Medium	Both	Public Education and Awareness	22
<b>Mitigation Goal 8:</b> To minimize the losses of lives and property due to earthquakes in Carroll County.											
<b>Objective 2:</b> Improve Carroll County's first responders' capabilities to prepare for and respond to earthquake events.											
7.2.1	Train all first responders on earthquakes search and rescue techniques.	Carroll County and Cities*	Fire Department	Ongoing	Staff Time	General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	8
7.2.2	Provide Confined Space Haz Mat Training in Earthquake Scenario.	Carroll County and Cities*	Fire Department	Ongoing	Staff Time	General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	8

\*Cities refers to the following: Bowdon, Bremen, Carrollton, Mount Zion, Roopville, Temple, Villa Rica and Whitesburg

Mitigation Items: Pandemics and Epidemics

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 10:</b> To minimize the loss of lives due to pandemics/epidemics in Carroll County.											
<b>Objective 1:</b> To protect the people and property of Carroll County from the effects of pandemic/epidemic events.											
8.1.1	Participate in Strategic National Stockpile drills and exercises.	Carroll County and Cities*	Carroll County EMA	Ongoing	\$15,000	General Funds	Unknown	High	Both	Emergency Services	16
8.1.2	Educate the public on pandemics, including isolation, quarantine, triage and medical care.	Carroll County EMA	Carroll County EMA	Ongoing	\$10,000	General Funds	Unknown	High	Both	Public Education and Awareness	12
8.1.3	Train all first responders on pandemic flu response.	Carroll County and Cities*	Carroll County EMA	Ongoing	\$25,000	General Funds	Unknown	High	Both	Emergency Services	12
8.1.4	Assist all critical departments in developing continuity of operations (COOP) plans.	Carroll County EMA	Carroll County EMA	5 years	\$25,000	General Funds	Unknown	Medium	Both	Emergency Services	10
8.1.5	Acquire infectious diseases personal protective equipment for all first responders.	Carroll County and Cities*	Carroll County EMA	2 years	\$75,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Emergency Services	15
8.1.6	Provide chemical and biological safety training to employees	Carroll County and Cities*	Carroll County EMA	Ongoing	Staff Time	General Funds	Unknown	Medium	Both	Public Education and Awareness	17

\*Cities refers to the following: Bowdon, Bremen, Carrollton, Mount Zion, Roopville, Temple, Villa Rica and Whitesburg

Mitigation Items: Extreme Temperatures

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
Mitigation Goal 9: To minimize the losses of lives and property due to earthquakes in Carroll County.											
Objective 1: Improve Carroll County's earthquake information distribution and warning to citizens.											
9.1.1	Provide warming shelters during extreme cold.	Nonprofit Emergency Shelter	City of Carrollton	Ongoing	Staff Time	Grants and General Funds	Unknown	Low	Both	Emergency Services	15
9.1.2	Provide cooling stations during heat waves.	Nonprofit Emergency Shelter	City of Carrollton	Ongoing	Staff Time	Grants and General Funds	Unknown	Medium	Existing	Emergency Services	16
9.1.3	Offer free admission to Midtown Water Park and Lakeshore Pool during heat waves.	City of Carrollton	City of Carrollton	Ongoing	Staff Time	General Funds	Unknown	Medium	Existing	Emergency Services	17



Mitigation Items: All Hazards

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 7:</b> To minimize the losses of life and property due to all natural hazards in Carroll County.											
<b>Objective 1:</b> To protect people and property from the effects of all natural hazards in Carroll County through public awareness campaigns.											
10.1.1	Improve interconnectivity of water systems to surrounding municipalities and counties.	Carroll County and Cities Water Authority / Department+	Carroll County and Cities Water Authority / Department+	3 years	\$1,500,000	Grants (such as CDBG, ARC), General Funds, SPLOST	Unknown	Medium	Both	Structural Projects	16
10.1.2	Work with local cable and radio providers to enhance and broadcast public education on Emergency Preparedness.	Carroll County EMA	Carroll County EMA	Ongoing	\$25,000	General Funds, SPLOST	Unknown	Medium	Both	Public Education and Awareness	22
10.1.3	Acquire a portable digital reader board to utilize during disasters.	Carroll County EMA	Carroll County EMA	2 years	\$10,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Emergency Services	16
<b>Mitigation Goal 7:</b> To minimize the losses of life and property due to all natural hazards in Carroll County.											
<b>Objective 2:</b> To provide the equipment, organization and training necessary to protect the citizens of Carroll County from all-hazards.											
10.2.1	Purchase and install tracking devices on all County Government Vehicles.	Carroll County	Carroll County Public Works	3 years	\$500,000	General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	17
10.2.2	Provide continual training and equipment for Emergency Management Agency Volunteers and Community Emergency Response Team (CERT).	Carroll County EMA	Carroll County EMA	Ongoing	\$50,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	Medium	Both	Emergency Services	14
10.2.3	Provide the emergency response personnel capable of responding to the effects of all hazards.	Carroll County and Cities*	Carroll County and Cities*	Ongoing	\$600,000	Grants (such as SAFER, COPS) and General Funds	Unknown	Medium	Both	Emergency Services	15

Mitigation Items: All Hazards

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 7:</b> To minimize the losses of life and property due to all natural hazards in Carroll County.											
<b>Objective 2:</b> To provide the equipment, organization and training necessary to protect the citizens of Carroll County from all-hazards.											
10.2.4	Maintain stock of supplies and equipment for mass casualty.	City of Bremen	City of Bremen	5 years	\$100,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Emergency Services	15
10.2.5	Research, purchase and installation of a Natural Gas Generator for Bremen Waste Water Lift Station at I-20.	City of Bremen	Carroll County EMA	2 years	\$150,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	17
10.2.6	Purchase a grapple bucket to aid in debris removal	City of Villa Rica	Public Works	1 year	\$15,000	Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	17
10.2.7	Acquire additional communications radios and back up power	City of Villa Rica	Public Works, Police, and Utilities	1 year	\$60,000	Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	17
10.2.8	Utilize SCADA Communications to monitor and control distribution of resources	City of Villa Rica	Utilities	1 year	\$40,000	Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	18
10.2.9	Acquire 4 portable light towers	City of Temple	Public Works, Police, and Utilities	3 years	\$48,000	Grants, General Funds, SPLOST	Unknown	High	Both	Property Protection	17
10.2.10	Purchase two high-performance Starlink kits for essential communications	Carroll County	Carroll Sheriff/EMA	1 year	\$8,000	General Funds, SPLOST	Unknown	High	Both	Emergency Services	19

Mitigation Items: All Hazards

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
10.2.11	Purchase a Rook - an armored critical incident utility vehicle to operate in extreme and hazardous conditions, as well as a Ford F-350 Dually Pickup Truck to transport the Rook.	Carroll County	Carroll Sheriff/EMA	3 years	\$647,340	Hazard Mitigation/ Homeland Security Grants, SPLOST	Unknown	High	Both	Emergency Services	17
10.2.12	Purchase 2 Rangers to use at county parks during severe weather or wildfires	Carroll County	Carroll County Fire Rescue	3 years	\$80,000	Hazard Mitigation/ Homeland Security Grants, SPLOST	Unknown	High	Both	Emergency Services	17
10.2.13	Add response equipment for severe weather, such as struts, search cameras, and search and rescue equipment, to GSAR-TF-6.	Carroll County	Carroll County Fire Rescue	3 years	\$150,000	Hazard Mitigation/ Homeland Security Grants, SPLOST	Unknown	High	Both	Emergency Services	17
<b>Mitigation Goal 7:</b> To minimize the losses of life and property due to all natural hazards in Carroll County.											
<b>Objective 3:</b> To protect the people and property from the effects of all hazards in Carroll County through effective planning.											
10.3.1	Review current land use plans to modify or incorporate into the plan guidelines to direct development away from hazardous areas.	Carroll County and Cities*	Department of Community Development	Ongoing	\$20,000	Grants (Planning) and General Funds	Unknown	Medium	Both	Prevention	18
10.3.2	Encourage best management practices in development ordinances to build stronger, more resilient communities.	Carroll County and Cities*	Department of Community Development	Ongoing	\$25,000	General Funds, SPLOST	Unknown	Medium	Both	Prevention	18
10.3.3	Create a safety plan for all county parks	Carroll County	Carroll County EMA/CCSO	2 years	\$10,000	General Funds, SPLOST	Unknown	Medium	Both	Prevention	21
<b>Mitigation Goal 7:</b> To minimize the losses of life and property due to all natural hazards in Carroll County.											
<b>Objective 4:</b> To implement a means of early warning throughout Carroll County.											
10.4.1	Assess outdoor warning for mass notification as a method of early warning for possible inclement weather or other hazards.	Carroll County EMA	Carroll County EMA	Ongoing	\$15,000	General Funds, SPLOST	Unknown	High	Both	Emergency Services	18

Mitigation Items: All Hazards

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
10.4.2	Identify populations at-risk within Carroll County and implement individual notification of warnings and conditions.	Carroll County EMA	Carroll County EMA	2 years	\$35,000	General Funds, SPLOST	Unknown	High	Both	Emergency Services	18
10.4.3	Purchase and distribute NOAA Weather Radios to cover all major buildings on the UWG Campus	Carroll County EMA/University of West Georgia	Carroll County EMA	5 years	\$20,000	Hazard Mitigation Grants, General Funds, SPLOST	Unknown	High	Both	Emergency Services	17

\*Cities refers to the following: Bowdon, Bremen, Carrollton, Mount Zion, Roopville, Temple, Villa Rica and Whitesburg

+City Water Departments include Bowdon, Bremen, Carrollton, Temple, Villa Rica and Whitesburg

Mitigation Items: Hazardous Materials Incidents

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
Mitigation Goal 11: To minimize the losses of lives and property due to hazardous materials spills in Carroll County.											
Objective 1: To provide enhanced training for hazardous materials emergency response in Carroll County.											
11.1.1	Implement a county wide training program for emergency response to hazardous material incidents.	Carroll County and Cities*	Fire Department	2 years	\$60,000	General Funds	Unknown	Medium	Both	Emergency Services	15
11.1.2	Provide Confined Space Haz Mat Training.	Carroll County and Cities*	Fire Department	Ongoing	Staff Time	General Funds	Unknown	Medium	Both	Emergency Services	15

\*Cities refers to the following: Bowdon, Bremen, Carrollton, Mount Zion, Roopville, Temple, Villa Rica and Whitesburg

Mitigation Items: Dam Failure

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 12:</b> To minimize the losses of lives and property due to incidents involving dam failure in Carroll County.											
<b>Objective 1:</b> To enhance the awareness of the existence of dams throughout the county and their potential for flooding downstream.											
12.1.1	Maintain/Update all watershed dams in Carroll County.	Carroll County and Cities*	Public Works	Ongoing	\$25,000	General Funds	Unknown	High	Both	Property Protection	16
12.1.2	Develop land use strategies to promote the safe use of land downstream from a dam.	Carroll County and Cities*	Community Development	3 years	\$25,000	Grants (Planning) and General Funds	Unknown	Medium	Both	Prevention	14

\*Cities refers to the following: Bowdon, Bremen, Carrollton, Mount Zion, Roopville, Temple, Villa Rica and Whitesburg

Mitigation Items: Terrorism (including Mass Casualty and Cyber Terrorism)

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 13:</b> To minimize the losses of life and property due to terrorism in Carroll County.											
<b>Objective 1:</b> To enhance terrorism awareness and response at all critical facilities.											
13.1.1	Provide active shooter/safety training to all critical facilities.	Carroll County and Cities*	Law Enforcement	Ongoing	Staff Time	General Funds	Unknown	Medium	Both	Public Education and Awareness	22
<b>Mitigation Goal 13:</b> To minimize the losses of life and property due to terrorism in Carroll County.											
<b>Objective 2:</b> To provide the equipment, organization and training necessary to protect the citizens of Carroll County from terrorism.											
13.1.2	Purchase two high-performance Starlink kits for essential communications	Carroll County	Carroll Sheriff/EMA	1 year	\$8,000	General Funds, SPLOST	Unknown	High	Both	Emergency Services	19
13.1.3	Purchase a Rook - an armored critical incident utility vehicle to operate in extreme and hazardous conditions, as well as a Ford F-350 Dually Pickup Truck to transport the Rook.	Carroll County	Carroll Sheriff/EMA	3 years	\$647,340	Hazard Mitigation/ Homeland Security Grants, SPLOST	Unknown	High	Both	Emergency Services	17

Mitigation Items: All Technological Hazards

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
<b>Mitigation Goal 14:</b> To minimize the losses of life and property due to technological hazards in Carroll County.											
<b>Objective 1:</b> To enhance residential fire safety in Carroll County.											
14.1.1	Promote an updated fire prevention and public education program.	Carroll County and City of Carrollton Fire	Fire Department	Ongoing	\$20,000	General Funds	Unknown	High	Both	Emergency Services	19
<b>Mitigation Goal 14:</b> To minimize the losses of life and property due to technological hazards in Carroll County.											
<b>Objective 2:</b> To enhance traffic safety in Carroll County.											
14.2.1	Improve emergency access road to Mount Zion Middle School.	Carroll County Schools, City of Mt. Zion and Carroll County Public Works	Public Works	1 year	\$300,000	General Funds, SPLOST	Unknown	High	Existing	Property Protection, Emergency Services	16
14.2.2	Review traffic reports for hazardous intersections to determine if traffic signals are needed.	Carroll County and Cities*	Public Works and Transportation	3 years	Staff Time	General Funds, SPLOST	Unknown	High	Both	Property Protection, Emergency Services	16
14.2.3	Enhance safety at the railroad crossing at Cheeves Street in Villa Rica.	City of Villa Rica	Public Works and Transportation	5 years	\$5,000,000	Grants (Hazard Mitigation or Safe Streets), General Funds, SPLOST	Unknown	High	Existing	Property Protection, Emergency Services	17
14.2.4	Enhance safety at the railroad crossing at E. Johnson St. and Sage St. in Temple.	City of Temple	Public Works and Transportation	5 years	\$5,000,000	Grants (Hazard Mitigation or Safe Streets), General Funds, SPLOST	Unknown	High	Existing	Property Protection, Emergency Services	16



Mitigation Items: All Technological Hazards

Number	Mitigation Action	Responsible Organization	Coordinating Organization	Timeline	Approximate Cost	Funding Sources	Estimated Benefit	Priority	Structures Affected	FEMA Category	STAPLEE Score
14.2.5	Ensure that all railroad crossings are properly marked and gated if needed.	Carroll County	Public Works and Transportation	5 years	\$50,000	Grants (DOT) and General Funds	Unknown	High	Existing	Property Protection, Emergency Services	16
<b>Mitigation Goal 12:</b> To minimize the losses of life and property due to technological hazards in Carroll County.											
<b>Objective 3:</b> To enhance workplace safety at all critical facilities.											
14.3.1	Provide active shooter/safety training to all critical facilities.	Carroll County and Cities*	Law Enforcement	Ongoing	Staff Time	General Funds	Unknown	Medium	Both	Public Education and Awareness	22
14.3.2	Develop safety flip charts for all critical facilities.	Carroll County and Cities*	Carroll County EMA	3 years	\$50,000	General Funds	Unknown	Medium	Both	Public Education and Awareness	22

\*Cities refers to the following: Bowdon, Bremen, Carrollton, Mount Zion, Roopville, Temple, Villa Rica and Whitesburg